

# CAVITATION DAMAGE IN PUMP REPAIRED

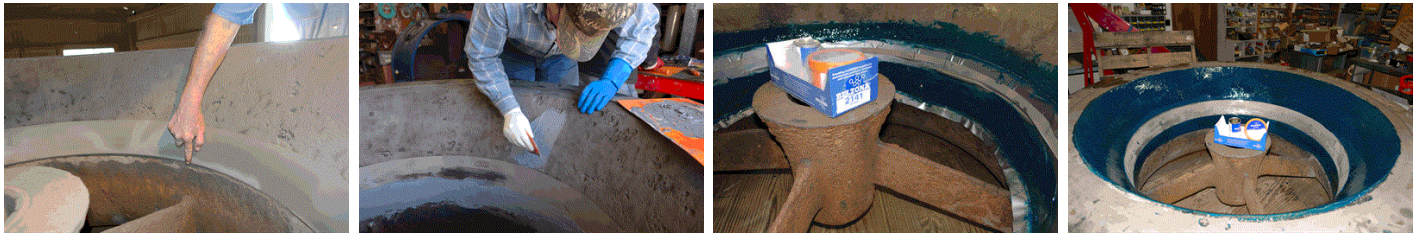
ID: 837

Industry: Power  
Application: CEP-Centrifugal Pumps  
Substrate: Cast carbon steel (5% Nickel)  
Products: \* Belzona® 1221 (Super E-Metal) ,  
\* Belzona® 2141 (ACR Elastomer) ,

Customer Location: Power Plant / NE Oklahoma  
Application Date: March 2007

## Problem

Severe cavitation erosion above and below wear ring. limited time to restore pump.



## Photograph Descriptions

- \* Extent of cavitation damage to suction bell, above and below wear ring ,
- \* Repairing damage back to original dimensions ,
- \* Repaired surface rebated, taped and half coated with Belzona® 2141 ,
- \* Finished job ready for bushing installation then into service ,

## Application Situation

Suction bell of pump found to be cavitated during 1 week outage.

## Application Method

Application carried out in accordance with Belzona Know-How System Leaflets CEP-3 and CEP-5. Rebate grooves were cut to terminate coating.

## Belzona Facts

Belzona repair and protective coating combined with 1-week turnaround saved approx. \$15,000 versus purchase of new unit with much longer lead time. Improved resistance to cavitation anticipated.

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

ISO 9001:2015  
FS 695214  
ISO 14001:2015  
EMS 695213

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